CLAIMS

1. A method for securing scrambled data supplied to a plurality of receiver terminals, each of said terminals comprising a plurality of descrambling modules Mj (j = 1…M), each having a specific processing capacity and a specific level of security, said data being previously subdivided into M families Fj (j = 1…M), each comprising N blocks Bi (1=1…N) :
each block Bi (i = 1…N) of a family Fj being scrambled by a key Kj (j = 1…M) associated with the family Fj, said method characterised in that said blocks Bi (i = 1…N) are previously organised as a function of the respective processing speeds of the descrambling modules Mj.

2. The method as claimed in claim 1, characterised in that the modules Mj (j = 1...M) are different peripheral elements associated with said receiver terminal.

3. The method as claimed in claim 2, characterised in that the descrambling modules Mj (j = 1...M) comprise different algorithms Aj (j = 1...M).

4. The method as claimed in claim 2, characterised in that the descrambling modules Mj (j = 1...M) comprise identical algorithms Aj (j = 1...M).

5. The method as claimed in any one of Claims 1 to 4, characterised in that the data to be distributed are in the form of a previously stored file.

6. The method as claimed in any one of claims 1 to 4, characterised in that the data to be secured are in the form of a broadcast or downloaded stream and processed in real time by the terminal.

7. The method as claimed in claim 5 or 6, characterised in that the duration of use of the stream is divided into crypto periods, each corresponding to a descrambling key, and in that prior to each start of the crypto period a message is inserted into the stream so as to warn the descrambling module Mj of the change in crypto period.

8. The method as claimed in claim 7, characterised in that said message comprises all information necessary for descrambling the stream utilised during the following crypto period.

9. The method as claimed in any one of claims 1 to 8, characterised in that said data represent audio and/or video programs protected by a DRM system.

10. The method as claimed in any one of claims 1 to 8, characterised in that said data represent images synthesis or animé drawings.

11. A system for securing scrambled data supplied to at least one receiver terminal, characterised in that it comprises:

a scrambling platform comprising:

- means for subdividing said data into m distinct families of N blocks Bi (i = 1...N),

- means for assigning each family Fj a specific identification parameter pj (j = 1...M) associated with at least one descrambling module Mj having a specific processing capacity and a specific level of security,

- means for scrambling each block Bi by a key Kj (j = 1...M) in biunivocal relation with the parameter pj,

and a descrambling platform comprising means for identifying the family of each block Bi so as to descramble each block Bi of a family of type pj by the module Mj corresponding to said parameter pj.

12. The system as claimed in claim 11, characterised in that the descrambling distinct modules Mj (j = 1...M) are distinct peripherals associated with the receiver terminal.

13. A scrambling platform for a stream of data, characterised in that it comprises:

- means for subdividing said stream into m distinct families of N blocks Bi (i = 1...N),

- means for assigning each family a specific identification parameter pj (j = 1...M) associated with at least one descrambling module Mj having a specific processing capacity and a specific level of security,

- means for scrambling each block Bi by a key Kj (j = 1...M) in biunivocal relation with the parameter pj.

14. The descrambling platform for a stream of data scrambled by the platform of Claim 13, characterised in that it comprises means for identifying the family of each block Bi so as to descramble each block Bi of a family of type pj by the module Mj corresponding to said parameter pj.

15. The descrambling platform as claimed in claim 14, characterised in that it comprises a plurality of distinct descrambling modules Mj (i = 1...M) each identified by the specific identification parameter pj.

16. The descrambling platform as claimed in claim 15, characterised in that the receiver terminal is a PDA and in that one of said descrambling modules Mj (i = 1...M) is integrated into the PDA and at least a second module is a smart card of SIM type connected to said PDA.

17. Utilisation of the process as claimed in any one of claims 1 to 8 for securing a video-on-demand service (VOD).

18. Utilisation of the process as claimed in any one of claims 1 to 8 for securing a music-on-demand service (MOD).

19. Utilisation of the process as claimed in any one of claims 1 to 8 for securing access to a broadcast service for electronic books either online or downloaded from portable media.